Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A carbon nanotube dispersion liquid, comprising a carbon nanotube modified with a basic or acidic functional group, which is dispersed in a polar solvent having a polarity opposite to a polarity of the functional group.

2. (Withdrawn) A carbon nanotube dispersion liquid according to claim 1, wherein the carbon nanotube dispersion liquid is in such a dispersion state that, when the liquid is rested for 1 hour at room temperature, a precipitating surface is 20% or less of an upper portion of the carbon nanotube dispersion liquid without developing a sedimentary surface.

3. (Withdrawn) A method of producing a carbon nanotube dispersion liquid, comprising: adding, through introduction, a basic or acidic functional group to a carbon nanotube; and dispersing the carbon nanotube into a polar solvent having a polarity opposite to a polarity of the functional group.

4. (Withdrawn) A method of producing a carbon nanotube dispersion liquid according to claim 3, wherein the carbon nanotube dispersion liquid is in such a dispersion state that, when the carbon nanotube dispersion liquid is rested for 1 hour at room temperature after the dispersing, a precipitating surface is 20% or less of an upper portion of the carbon nanotube dispersion liquid without developing a sedimentary surface.

5. (Currently Amended) A method for producing a polymer composite, comprising:

modifying a carbon nanotube with a basic or acidic functional group;

uniformly dispersing the modified carbon nanotube in a polar solvent having a polarity opposite to a polarity of the functional group to form a carbon nanotube dispersion liquid without being mixed with a surfactant;

mixing a polymer with the carbon nanotube dispersion liquid to form a mixture solution; and

volatilizing the polar solvent from the mixture solution.

6. (Currently Amended) A method for producing a polymer composite, comprising:

modifying a carbon nanotube with a basic or acidic functional group;

uniformly dispersing the modified carbon nanotube in a polar solvent having a polarity opposite to a polarity of the functional group to form a carbon nanotube dispersion liquid without being mixed with a surfactant;

dissolving a polymer in a second solvent to form a polymer solution;

mixing the polymer solution with the carbon nanotube dispersion liquid to form a mixture solution; and

volatilizing the polar solvent and the second solvent from the mixture solution.

7. (Previously Presented) The method according to claim 6, further comprising preparing the polymer solution by dissolving the polymer in the second solvent prior to preparing the mixture solution.

8. (Previously Presented) The method according to claim 6, wherein the polar solvent and the polymer solution are compatible with each other.

9. (Previously Presented) The method according to claim 6, wherein the polar solvent and the second solvent are the same solvent.